

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

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1 and 2. (canceled)

3. (currently amended) An electronic endoscope apparatus which removes flicker on a screen ~~according to claim 1,~~ further comprising:

*A1 cont'd*  
a circuit for generating an interlaced scanning signal for display of an image on a TV monitor from an image signal obtained by an image pickup device; and

a progressive resolution conversion circuit for generating a non-interlaced scanning signal with higher vertical resolution than a frame signal for a TV monitor by reading and overlapping in the vertical direction the same horizontal line data of field signals for interlaced scanning,

wherein said progressive resolution conversion circuit comprises:

a field memory for storing a field signal for interlaced scanning;

a frame memory for storing a frame signal for non-interlaced scanning; and

a write/read control circuit for reading twice at the same horizontal line data of the field signal in said field memory at a double speed of a write speed for the signal, temporarily writing the signal in said frame memory, and controlling the frame signal in said frame memory such that the same horizontal line data of the frame signal can be read twice at a double speed of a write speed of the frame signal so that high-density data is compressed in the vertical direction and displayed on one screen, thereby obtaining the non-interlaced scanning signal with higher vertical resolution than the frame signal for the TV monitor.

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could*

4. (currently amended) The electronic endoscope apparatus which removes flicker on a screen ~~according to claim 1,~~ further comprising:

a circuit for generating an interlaced scanning signal for display of an image on a TV monitor from an image signal obtained by an image pickup device; and

a progressive resolution conversion circuit for generating a non-interlaced scanning signal with higher vertical resolution than a frame signal for a TV monitor by reading and overlapping in the vertical direction the same horizontal line data of field signals for interlaced scanning,

wherein said progressive resolution conversion circuit comprises:

a field memory for storing a field signal for interlaced scanning;

a frame memory for storing a frame signal for interlaced scanning; and

a write/read control circuit for controlling the same horizontal line data of the field signal in said field memory such that the ~~signal~~ data can be read  $n$  ( $n \geq 3$ ) times at a speed  $n$  (~~integer~~) times as fast as a write speed for the signal so that high-density data is compressed in the vertical direction and displayed on one screen, thereby obtaining the non-interlaced scanning signal with higher vertical resolution than the frame signal for the TV monitor.

*A!  
cont'd*

5. (new) An electronic endoscope apparatus which removes flicker on a screen comprising:

a circuit for generating an interlaced scanning signal for display of an image on a TV monitor from an image signal obtained by an image pickup device; and

a progressive resolution conversion circuit for generating a non-interlaced scanning signal with higher vertical resolution than a frame signal for a TV monitor by reading and overlapping in the vertical direction the same horizontal line data of field signals for interlaced scanning,

wherein said progressive resolution conversion circuit comprises:

a field memory for storing a field signal for interlaced scanning;

a frame memory for storing a frame signal for non-interlaced scanning; and

*A! concl.* a write/read control circuit for reading  $n$  ( $n \geq 3$ ) times the same horizontal line data of the field signal in said field memory at a speed  $n$  times as fast as a write speed for the signal, temporarily writing the signal in said frame memory, and controlling the frame signal in said frame memory such that the same horizontal line data of the frame signal can be read  $n$  times at a speed  $n$  times as fast as a write speed of the frame signal so that high-density data is compressed in the vertical direction and displayed on one screen, thereby obtaining a non-interlaced scanning signal with higher vertical resolution than the frame signal for the TV monitor.

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